

ABSTRACT OF THE DISCLOSURE

A fiber laser apparatus, an image display apparatus and an excitation method for an up-conversion fiber laser apparatus are disclosed. A polarizer and a 5 high-reflection mirror for retrieving an up-conversion laser output are interposed between an exciting laser for emitting an exciting laser beam and a rare-earth-doped fiber. That portion of the exciting laser beam output from the output side of the rare-earth-doped 10 fiber which has a polarized wave directed at right angles to the polarized wave incident on the rare-earth-doped fiber is returned into the rare-earth-doped fiber. The exciting laser beam having the other polarized wave is output in a direction different from 15 the direction of the exciting laser.